JP 2-18412

409

AN 1990:516539 CAPLUS
DN 113:116539
TI Flexible epoxy resin compositions with stable hardness
IN Oishi, Shinji'
PA Sumitomo Bakelite Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C08G059-32
ICS C08G059-42; C08G059-50
CC 37-6 (Plastics Manufacture and Processing)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 02018412	A2	19900122	JP 1988-167693	19880707

AB Title compns. contain (A) 100 parts epoxy resins contg. 30-60% bisphenol A epoxy resins having alkylene ether bonds in the main chain, (B) 5-30 parts aliph. mono- or diglycidyl ethers or arom. monoglycidyl ethers, and (C) polyamideamine (I) obtained by condensation reaction between dimer acid and polyamines as hardeners. Thus, a compn. comprising EP 828 (190 epoxy equiv) (II) 50, EP 4000 (325 epoxy equiv) 35, Eponitt 014 (alc. monoglycidyl ether, 215 epoxy equiv) (III) 15, and I (DSX 178, 430 amine value) 92 parts showed viscosity 10 P (25.degree.), Shore D hardness (80.degree.) 25 initially and 25 after 10 days at 80.degree., vs. 30 P, 45, and 50, resp., for the compn. comprising II 85, III 15, and I 114 parts.

ST epoxy resin blend flexibility hardness

IT Epoxy resins, uses and miscellaneous
RL: USES (Uses)
(bisphenol A type epoxy resin blends, contg. aliph. mono- or diglycidyl ethers or arom. monoglycidyl ethers and polyamideamines, with good flexibility)

IT Crosslinking agents
(polyamideamines, from dimer acid and polyamines, epoxy resin compns. contg., with good flexibility)

IT Epoxy resins, uses and miscellaneous
RL: USES (Uses)
(bisphenol A-based, epoxy resin blends, contg. aliph. mono- or diglycidyl ethers or arom. monoglycidyl ethers and polyamideamines, with good flexibility)

IT Polyamines
RL: MOA (Modifier or additive use); USES (Uses)
(polyamide-, crosslinking agents, epoxy resin compns. contg., with good flexibility)

IT Polyamides, uses and miscellaneous
RL: MOA (Modifier or additive use); USES (Uses)
(polyamine-, crosslinking agents, epoxy resin compns. contg., with good flexibility)

IT **11121-15-6**, EP 4000
RL: USES (Uses)
(bisphenol A type epoxy resin blends, contg. aliph. mono- or diglycidyl ethers or arom. monoglycidyl ethers and polyamideamines, with good flexibility

WEST

End of Result Set

Generate Collection

L5: Entry 1 of 1 File: DWPI Jan 22, 1990

DERWENT-ACC-NO: 1990-064183
DERWENT-WEEK: 199009

TITLE: Flexible epoxy! resin compsn. for electric parts, etc. - contains bisphenol=A epoxy resin contg. alkylene ether bonds, mono-glycidyl ether and poly-amine-amide!

PATENT-ASSIGNEE:

ASSIGNEE	CODE
SUMITOMO BAKELITE CO	SUMB

PRIORITY-DATA:
1988JP-0167693 July 7, 1988

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 02018412 A	January 22, 1990	N/A	003	N/A

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-NO
JP02018412A	July 7, 1988	1988JP-0167693	N/A

INT-CL (IPC): C08G 59/32

ABSTRACTED-PUB-NO: JP02018412A
BASIC-ABSTRACT:

Compsn. comprises an epoxy resin contg. 30-60 pts.wt. bisphenol A epoxy resin having alkylene ether bonds in the main chain, 5-30 pts.wt. aliphatic mono- or diglycidyl ether or an aromatic monoglycidyl ether on the basis of 100 pts.wt. epoxy resin and a polyamineamide obtd. by the condensn. reaction of a dimer acid and a polyamine as curative.

The pref. content of polyamineamide is 80-150 pts.wt. on the basis of 100 pts.wt. of epoxy resin.

USE/ADVANTAGE - Epoxy resin compsns. have good workability by mixing with a reactive diluent used as casting materials for electric and electronic parts giving cured prods. with flexibility and a small hardness change over time.

In an example, a compsn. consisting of 50 pts. 'EP-828' (RTM) with an epoxy equiv. of 190 supplied by Shell Chemical Co., 35 pts. 'EP-4000' (RTM) with an epoxy equiv. of 325 supplied by Asahi Denka Co., 15 pts. alcohol monoglycidyl ether with an epoxy equiv. 215 ('Eponitt 014' (RTM) supplied by Nitto Kasei Co.) and 92 pts. 'DX-178' (RTM) with an amine value of 430 supplied by Henkel Hakusui Co. has a viscosity at 25 deg.C of 10 poises. A prod. obtd. by curing the compsn. for 5 hrs. at 60 deg.C has Shore D hardnesses on days 0 and 10 at 80 deg.C of 25 and 25.

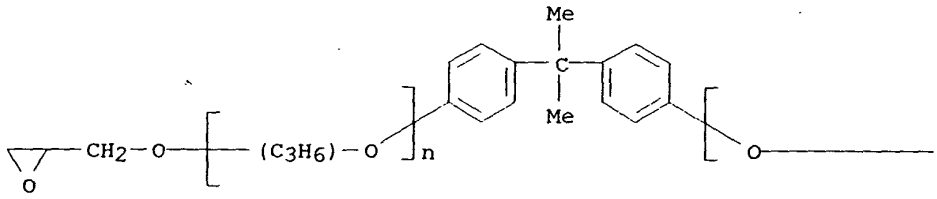
CHOSEN-DRAWING: Dwg.0/0

RN 11121-15-6 REGISTRY
CN Poly[oxy(methyl-1,2-ethanediyl)],
.alpha.,.alpha.'-[(1-methylethylidene)di-
4,1-phenylene]bis[.omega.-(oxiranylmethoxy)-, homopolymer (9CI) (CA
INDEX
NAME)
OTHER NAMES:
CN Adeka EP 4000
CN Adeka Resin EP 4000
CN ADK 4000
CN EP 4000
CN Epiclon 717
CN Gurishieru BPP 350
CN **Rikaresin BPO 20E**
DR 54667-37-7, 60267-15-4, 63278-42-2, 39354-76-2
MF ((C3 H6 O)n (C3 H6 O)n C21 H24 O4)x
CI PMS, COM
PCT Epoxy resin, Polyether
LC STN Files: CA, CAPLUS, CHEMLIST, IFICDB, IFIPAT, IFIUDB, USPATFULL

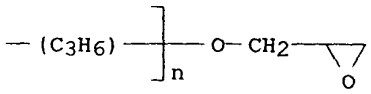
CM 1

CRN 55236-42-5
CMF (C3 H6 O)n (C3 H6 O)n C21 H24 O4
CCI IDS, PMS

PAGE 1-A



PAGE 1-B



93 REFERENCES IN FILE CA (1967 TO DATE)
23 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
93 REFERENCES IN FILE CAPLUS (1967 TO DATE)